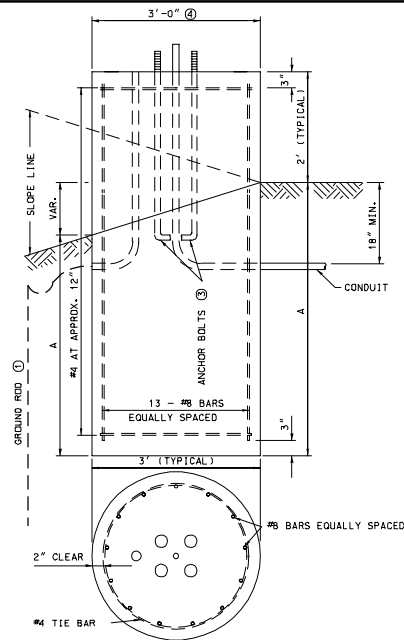
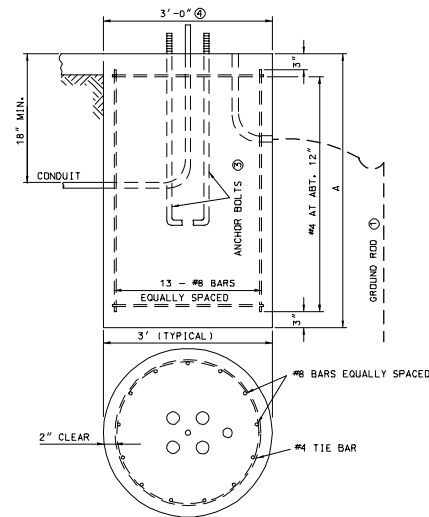


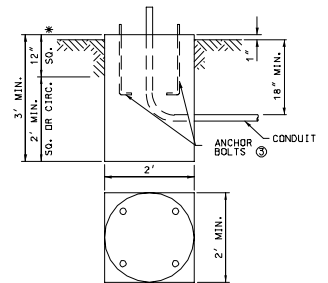
TYPE A



TYPE A MODIFIED



TYPE B



TYPE C

* SURFACE OF BASE TO BE CONSTRUCTED SQUARE FOR A DEPTH OF 12".

POST BASES

POST BASES		
POST TYPE	ARM LENGTH (FT.) (6)	BASE TYPE (6)
B, BL, C & CL	8 - 14	A-8 OR B-8
B, BL, C & CL	15 - 24	A-10 OR B-10
B & BL	25 - 34	A-10 (MOD) OR B-10 (MOD)
C & CL	25 - 34	A-10 OR B-10
B, BL, C & CL	35 - 54	A-13 (MOD) OR B-13

(6) ARM LENGTH DETERMINED BY LENGTH OF LONGEST ARM FOR TYPE B & BL SIGNAL POSTS.

(6) BASE TYPE A OR B DETERMINED BY LOCATION OF POST BASE.

STEEL & CONCRETE REQUIREMENTS FOR POST BASES			
BASES	#8 STEEL BAR	CONC. C.Y.	
TYPE	A (7)	LENGTH	WEIGHT (LBS.) (8)
A-8	8'-0"	9'-6"	399
A-10	10'-0"	11'-6"	481
A-13	13'-0"	14'-6"	604
A-8 (MOD)	8'-0"	9'-6"	400
A-10 (MOD)	10'-0"	11'-6"	482
A-13 (MOD)	13'-0"	14'-6"	605
B-8	8'-0"	7'-6"	317
B-10	10'-0"	9'-6"	400
B-13	13'-0"	12'-6"	523
C *			0.44

(7) SOIL DEPTH, NO ROCK.

(8) INCLUDE #4 TIE BAR

* SURFACE OF BASE TO BE CONSTRUCTED SQUARE FOR A DEPTH OF 12".

BASE EMBEDMENT IN SOLID ROCK			
SOLID ROCK ENCOUNTER POINT	REQUIRED EMBEDMENT FOR BASE TYPE		
	A-8 A-8 MOD B-8	A-10 A-10 MOD B-10	A-13 A-13 MOD B-13
AT SURFACE	4'-6"	4'-9"	5'-9"
AT ONE-FOURTH NORMAL DEPTH	3'-6"	4'-0"	5'-0"
AT ONE-HALF NORMAL DEPTH	3'-0"	3'-3"	3'-3"
AT THREE-FOURTHS NORMAL DEPTH	1'-3"	1'-3"	1'-0"

1. REQUIRED EMBEDMENT DEPTHS CAN BE INTERPOLATED BETWEEN ENCOUNTER POINTS FOR OTHER SOLID ROCK ENCOUNTER DEPTHS.

2. NORMAL LENGTHS FOR ANCHOR BOLTS AND REINFORCING STEEL WILL BE REQUIRED.

3. CORE DRILL HOLES FOR ANCHOR BOLTS AND REINFORCING STEEL IN SOLID ROCK SHALL BE PROVIDED. CORE DRILL HOLES SHALL BE TWICE THE DIAMETER OF THE ANCHOR BOLT AND REINFORCING STEEL DIAMETER AND TO WITHIN 3 INCHES OF THE NORMAL BASE DEPTH.

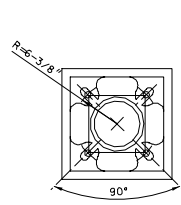
4. IF SOIL, SHALE, GRAVEL, FRACTURED ROCK, OR VOIDS ARE ENCOUNTERED DURING CORE DRILLING, THE ROCK SHALL BE REMOVED TO THE POINT OF ENCOUNTER.

5. ANCHOR BOLTS AND REINFORCING STEEL SHALL BE GROUTED IN THE CORE DRILL HOLES WITH NON-SHRINK GROUT HAVING A MINIMUM STRENGTH OF 9,000 POUNDS IN 24 HOURS.

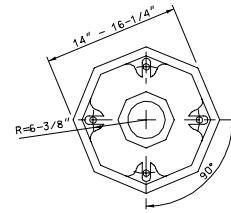
6. STRAIGHT ANCHOR BOLTS OF THE LENGTH SHOWN IN THE ANCHOR BOLT TABLE UNDER THE COLUMN "BOLT LENGTH" ARE ADEQUATE FOR USE IN GROUTED CORE DRILLED HOLES.

- (1) APPLICABLE ONLY WHERE CONTROLLER IS MOUNTED TO A SIGNAL POLE.
- (2) IF BOLT CIRCLE DIAMETER IS 22 INCHES OR GREATER, USE TYPE A MODIFIED BASE. BASE PLATE SHALL STAY WITHIN THE TOP OF THE POST BASE DIAMETER.
- (3) ANCHOR BOLT DIMENSIONS ARE SHOWN ON THE MANUFACTURER'S APPROVED DRAWINGS.
- (4) MAXIMUM BOLT CIRCLE DIAMETER IS 26". BASE PLATE SHALL STAY WITHIN THE TOP OF THE POST BASE DIAMETER.

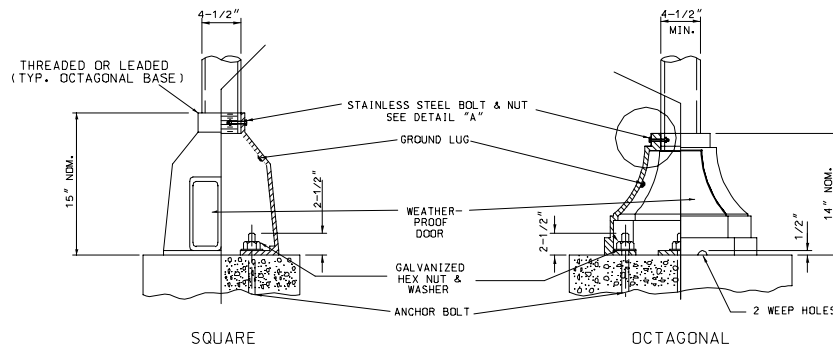
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION			
TRAFFIC SIGNALS			
POST BASES			
DATE: _____	EFFECTIVE: 07-01-2001	902.30N	1 2



BOLT CIRCLE



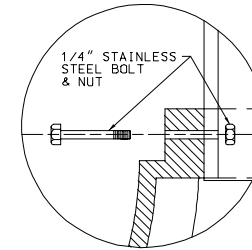
BOLT CIRCLE



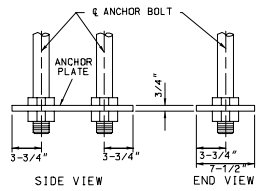
SQUARE

OCTAGONAL

CAST BASE



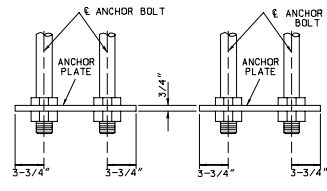
DETAIL "A"



SIDE VIEW END VIEW

HEX NUT OR 5/16" FILLET
WELD ALL AROUND BOTH SIDES

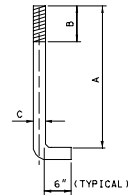
TWO BOLTS PER PLATE



HEX NUT OR 5/16" FILLET WELD ALL AROUND BOTH SIDES

FOUR BOLTS PER PLATE

OPTIONAL STEEL PLATE
FOR ANCHOR BOLTS



ANCHOR BOLT

NOTE:
ALL ANCHOR BOLTS SHALL BE FULLY GALVANIZED.

BOLT LENGTH INCHES	VERT. HT. A INCHES	THREAD LEN. B INCHES	DIA. C INCHES
19	17	1.50	0.625
57	51	7.00	1.250
79	73	7.50	1.500
94	88	8.00	1.750
121	115	8.50	2.000
120	114	9.00	2.250
146	140	9.50	2.500

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION			
TRAFFIC SIGNALS POST BASES			
DATE: _____	EFFECTIVE: 07-01-2001	902.30N	2 2